

1-30-15 LETTING ITEM 048

FOR UTILITY LOCATION PURPOSES, THIS PROJECT IS LOCATED IN SOUTHEAST QUARTER OF SECTION 9, TOWNSHIP 4 NORTH, RANGE 9 WEST OF THE 3RD PRINCIPAL MERIDIAN.

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (800) 892-0123 OR FOR NON-MEMBERS, UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

HARTFORD PUBLIC WORKS DEPT.
140 WEST HAWTHORNE
HARTFORD, IL 62048
(618) 251-2680

ELECTRIC:
AMEREN ILLINOIS
700 OAKWOOD AVENUE
ALTON, IL 62002
(800) 325-7002

AT&T
203 GOETHE
COLLINSVILLE, IL 62234
(618) 346-6400

CHARTER COMMUNICATIONS
4767 SIGNATURE INDUSTRIAL DRIVE
EDWARDSVILLE, IL 62025
(618) 307-5730

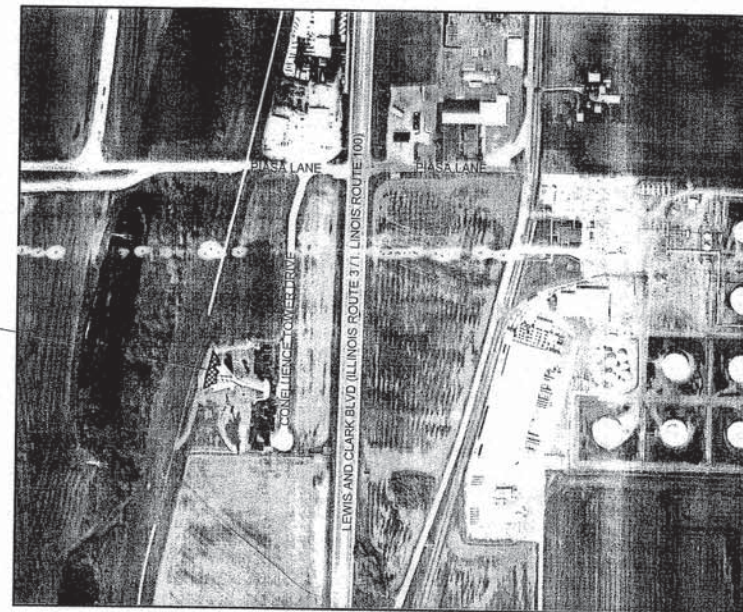
GAS:
AMEREN ILLINOIS
2600 N. CENTER STREET
MARYVILLE, IL 62062
(618) 346-1244

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
FEDERAL AID HIGHWAY
**LEWIS AND CLARK MEMORIAL TOWER
CONFLUENCE CONCOURSE**
SECTION 11-00026-03-MS
FEDERAL PROJECT NO. SBIL - IL11 (002)
VILLAGE OF HARTFORD
MADISON COUNTY
JOB C-98-309-12

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	1
FEDERAL AID PROJECT		CONTRACT NO. 97576	

INDEX TO SHEETS

1. COVER SHEET, INDEX TO SHEETS
2. SUMMARY OF QUANTITIES, GENERAL NOTES, LEGEND & CONTROL POINTS, HIGHWAY STANDARDS
- 3.-4. PLAN
5. FOUNDATION PLAN
6. FOUNDATION SECTION VIEWS
7. EROSION CONTROL PLAN
8. LANDSCAPE PLAN
9. IRRIGATION PLAN
10. EXISTING IRRIGATION PLAN
11. DETAILS OF CONSTRUCTION

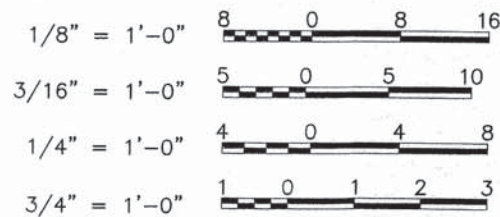


PROJECT LOCATION

LOCATION MAP

NOT TO SCALE
APPROXIMATELY 0.2 ACRES

SCALES



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ARCHITECTURAL SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.



LOCATION OF SECTION INDICATED THUS:-

ILLINOIS DEPARTMENT OF TRANSPORTATION	
Approved	10/6/14 <i>James V. Span</i> Village of Hartford, Mayor
Passed	11-6-14 <i>[Signature]</i> District #8 Engineer of Local Roads & Streets
Releasing for Bid Based on Limited Review	11-6-14 <i>[Signature]</i> Deputy Director of Highways, Region #5 Engineer

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR SHEETS 1-4
7-11



Larry D. Anderson
DATE SIGNED 10/06/14
EXPIRATION DATE 11/30/15

FOR SHEETS 5-6



[Signature]
DATE SIGNED 10/6/14
EXPIRATION DATE 11/30/14

SMS ENGINEERS Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
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10 Central Industrial Drive, Suite 3, Granite City, IL 62040 618/977-8700 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

n:\Projects\hartford 448079 Confluence Tower\dwg\amphitheater Cover Sheet.dwg, 10/6/2014 7:31:31 AM, jman, 11

GENERAL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 AND THE SPECIAL PROVISIONS OF THE PROJECT CONTRACT.
- EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE.
- ALL ELEVATIONS REFER TO NATIONAL GEODETIC SURVEY (N.G.S.) DATUM.
- PROPOSED ELEVATIONS SHOWN ON THE PLANS AS ± ARE APPROXIMATE, EXACT ELEVATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

SUMMARY OF QUANTITIES

CODE NO.	CONSTRUCTION TYPE CODE	ITEM	80% FED. 20% LOCAL	
			UNIT	TOTAL QUANTITY
20200100		EARTH EXCAVATION	CU YD	137
20700220		POROUS GRANULAR EMBANKMENT	CU YD	158
21101505		TOPSOIL EXCAVATION AND PLACEMENT	CU YD	52
21101645		TOPSOIL FURNISH AND PLACE, 12"	SQ YD	578
* 25000400		NITROGEN FERTILIZER NUTRIENT	POUND	7
* 25000500		PHOSPHORUS FERTILIZER NUTRIENT	POUND	7
* 25000600		POTASSIUM FERTILIZER NUTRIENT	POUND	7
* 25000700		AGRICULTURAL GROUND LIMESTONE	TON	0.2
* 25200100		SODDING	SQ YD	578
* 25200200		SUPPLEMENTAL WATERING	UNIT	9
28000250		TEMPORARY EROSION CONTROL SEEDING	POUND	12
28000400		PERMETER EROSION BARRIER	FOOT	280
28000500		INLET AND PIPE PROTECTION	EACH	7
42400100		PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	493
44000600		SIDEWALK REMOVAL	SQ FT	546
50200100		STRUCTURE EXCAVATION	CU YD	243
50300254		RUBBED FINISH	SQ FT	2,400
* 50900805		PEDESTRIAN RAILING	FOOT	143
* 50901760		PIPE HANDRAIL	FOOT	41
60100905		PIPE DRAINS 4"	FOOT	238
60234200		INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	7
60600605		CONCRETE CURB, TYPE B	FOOT	18
61140000		STORM SEWERS (SPECIAL), 8"	FOOT	184
67100100		MOBILIZATION	L SUM	1
* A2004630		TREE, GLEDITSIA TRIACANTHOS VAR. INERMIS (SUNBURST HONEY LOCUST), 4 CALIPER, BALLED AND BURLAPPED	EACH	4
K1001988		IRRIGATION SYSTEM SPECIAL	L SUM	1
X4240420		PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, SPECIAL	SQ FT	1,193
X5030225		CONCRETE STRUCTURES (SPECIAL)	CU YD	184.3
X7010216		TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
X7240205		REMOVE EXISTING SIGN COMPLETE	EACH	1
X7240505		RELOCATE SIGN PANEL AND POST	EACH	1
20027800		GEOTECHNICAL FABRIC	SQ YD	237
20055905		TEMPORARY CONSTRUCTION FENCE	FOOT	226
XX008614		TENSILE SHADE STRUCTURE	EACH	2

* SPECIALITY ITEM

GENERAL LEGEND

	CENTERLINE OF PROPOSED IMPROVEMENT		EXISTING INLET
	EXISTING RIGHT-OF-WAY LINE		EXISTING PIPE CULVERT
	PROPOSED RIGHT-OF-WAY LINE		EXISTING SANITARY SEWER
	TEMPORARY CONSTRUCTION EASEMENT		EXISTING STORM SEWER
	PROPERTY LINE		EXISTING WATER LINE
	SECTION LINE		EXISTING GAS LINE
	1/2 SECTION LINE		EXISTING TELEPHONE LINE
	IRON PIPE FOUND		EXISTING FIBER OPTIC CABLE
	IRON PIPE SET		EXISTING ELECTRIC CABLE
	MONUMENT FOUND		EXISTING PIPE LINE
	PROPOSED R.O.W. MONUMENT		SIDEWALK TO BE REMOVED
	FENCE		18" TREE
	EDGE OF EXISTING FEATURES		SOIL BORING LOCATION
	CONSTRUCTION LIMITS		PROPOSED DITCH
	EXISTING DITCH		PROPOSED INLET / PIPE PROTECTION
	UTILITY POLE		PROPOSED PERIMETER EROSION BARRIER
	UTILITY POLE W/ DOWN GUY		EXISTING SPOT ELEVATION
	LIGHT POLE		PROPOSED SPOT ELEVATION
	GAS METER		PROPOSED DEPRESSED CURB
	WATER METER		PROPOSED HOT-MIX-ASPHALT SURFACING
	FIRE HYDRANT		PROPOSED DETECTABLE WARNING
	WATER OR GAS VALVE		PROPOSED TEMPORARY DITCH CHECK
	TELEPHONE PEDESTAL		
	EXISTING SIGN		
	PROPOSED SIGN		
	MAIL BOX		
	EXISTING MANHOLE		
	CONTROL POINT		

ABBREVIATIONS

T.C.	-	TOP OF CURB
E.P.	-	EDGE OF PAVEMENT
F.L.	-	FLOW LINE
F. & G.	-	FRAME AND GRATE
O.L.	-	OPEN LID
C.L.	-	CLOSED LID
SS1	-	STORM SEWER TYPE 1
T.B.	-	TRENCH BACKFILL
C	-	EARTH EXCAVATION QUANTITY SHOWN ON CROSS SECTIONS
F	-	EMBANKMENT QUANTITY SHOWN ON CROSS SECTIONS

COMMITMENTS

THE CONTRACTOR SHALL AT NO TIME ENTER ONTO THE LEVEE. THIS INCLUDES WORKING OR PARKING OF EQUIPMENT. ORANGE HIGH VISIBILITY FENCING, TEMPORARY CONSTRUCTION FENCE, SHALL BE ERECTED AS SHOWN ON THE PLANS TO OUTLINE THE AREA THAT IS OFF LIMITS TO THE CONTRACTOR. THE FENCE SHALL BE ERECTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES.

HIGHWAY STANDARDS

- 280001-07
- 602301-04
- 604001-04
- 606001-04
- 701901-04
- 701801-05

SURVEY CONTROL POINTS

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #1503	4441.1960	3846.2490	437.68	CUT "X"
CP #1504	4248.4890	3828.0620	436.05	CUT "X"
CP #1506	3927.1060	3833.7670	433.13	CUT "X"

SITE BENCHMARK

B.M. #	ELEVATION	DESCRIPTION
B.M. #1	437.18	IRON PIN
B.M. #51412	435.05	CUT "X" IN CONCRETE

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	2
FEDERAL AID PROJECT		CONTRACT NO. 97576	

REVISIONS

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DESIGN FIRM # 184-000992

CONFLUENCE CONCOURSE
SECTION 11-00026-03-MS
VILLAGE OF HARTFORD
GENERAL NOTES, LEGEND & CONTROL POINTS

DWG. NO.
P:\HARTFORD 448079 CONFLUENCE TOWER\AMPHITHEATER GEN NOTES.DWG
REF. BK. PG.
JOB NO. 448079
DGN. BY: LDA
DWN. BY: CAD
CHK. BY: LDA
DATE: OCTOBER, 2014
SCALE: NOT TO SCALE
SHEET 2 OF 11

NOTES

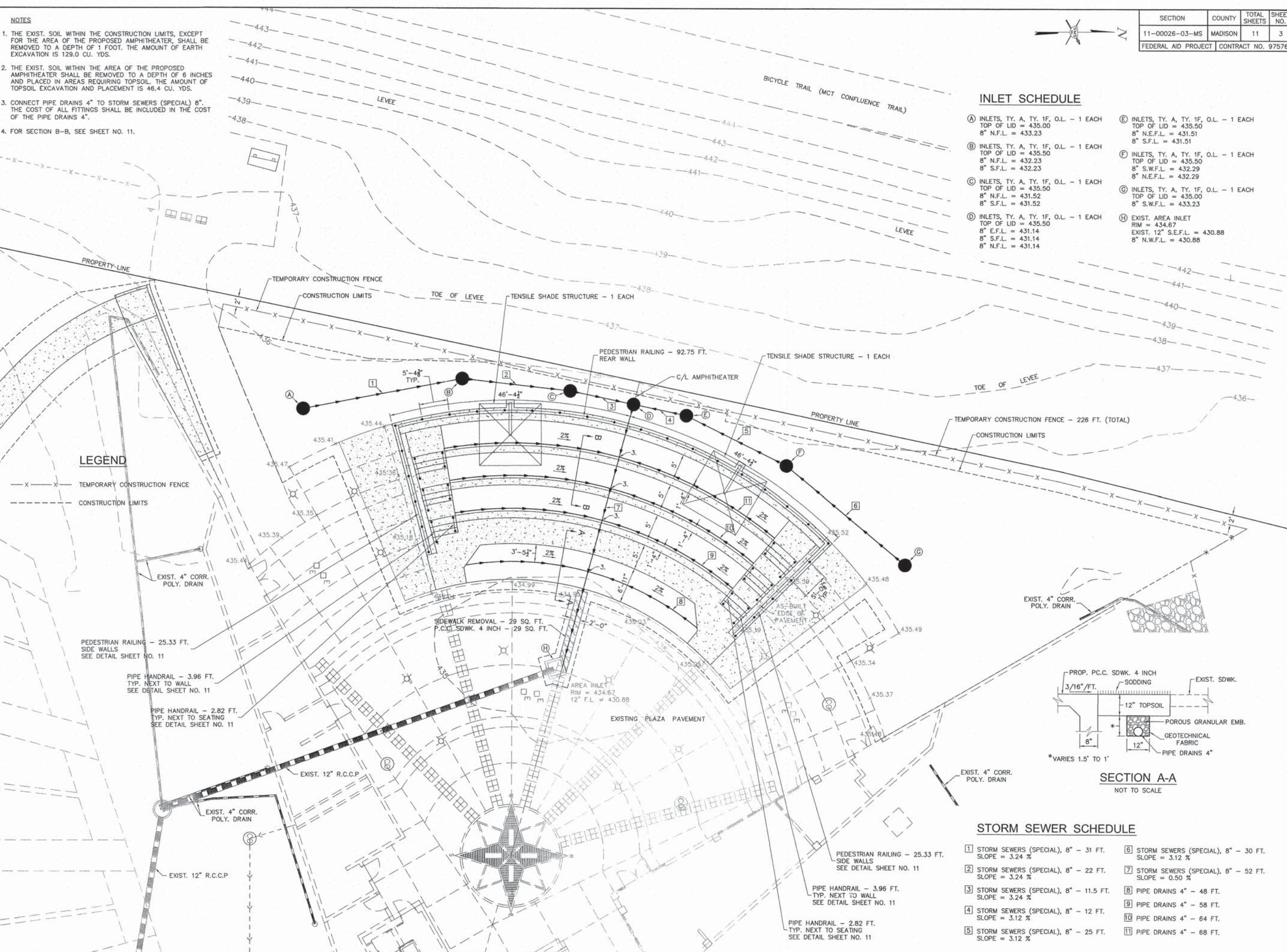
1. THE EXIST. SOIL WITHIN THE CONSTRUCTION LIMITS, EXCEPT FOR THE AREA OF THE PROPOSED AMPHITHEATER, SHALL BE REMOVED TO A DEPTH OF 1 FOOT. THE AMOUNT OF EARTH EXCAVATION IS 129.0 CU. YDS.
2. THE EXIST. SOIL WITHIN THE AREA OF THE PROPOSED AMPHITHEATER SHALL BE REMOVED TO A DEPTH OF 6 INCHES AND PLACED IN AREAS REQUIRING TOPSOIL. THE AMOUNT OF TOPSOIL EXCAVATION AND PLACEMENT IS 46.4 CU. YDS.
3. CONNECT PIPE DRAINS 4" TO STORM SEWERS (SPECIAL) 8". THE COST OF ALL FITTINGS SHALL BE INCLUDED IN THE COST OF THE PIPE DRAINS 4".
4. FOR SECTION B-B, SEE SHEET NO. 11.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	3
FEDERAL AID PROJECT		CONTRACT NO. 97576	



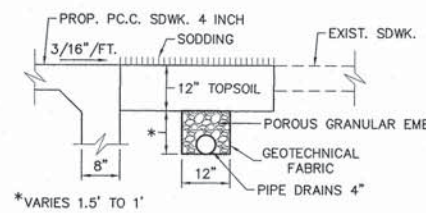
INLET SCHEDULE

- | | |
|---|--|
| <p>A INLETS, TY. A, TY. 1F, O.L. - 1 EACH
TOP OF LID = 435.00
8" N.F.L. = 433.23</p> <p>B INLETS, TY. A, TY. 1F, O.L. - 1 EACH
TOP OF LID = 435.50
8" N.F.L. = 432.23
8" S.F.L. = 432.23</p> <p>C INLETS, TY. A, TY. 1F, O.L. - 1 EACH
TOP OF LID = 435.50
8" N.F.L. = 431.52
8" S.F.L. = 431.52</p> <p>D INLETS, TY. A, TY. 1F, O.L. - 1 EACH
TOP OF LID = 435.50
8" E.F.L. = 431.14
8" S.F.L. = 431.14
8" N.F.L. = 431.14</p> | <p>E INLETS, TY. A, TY. 1F, O.L. - 1 EACH
TOP OF LID = 435.50
8" N.E.F.L. = 431.51
8" S.F.L. = 431.51</p> <p>F INLETS, TY. A, TY. 1F, O.L. - 1 EACH
TOP OF LID = 435.50
8" S.W.F.L. = 432.29
8" N.E.F.L. = 432.29</p> <p>G INLETS, TY. A, TY. 1F, O.L. - 1 EACH
TOP OF LID = 435.00
8" S.W.F.L. = 433.23</p> <p>H EXIST. AREA INLET
RIM = 434.67
EXIST. 12" S.E.F.L. = 430.88
8" N.W.F.L. = 430.88</p> |
|---|--|



LEGEND

- X-X- TEMPORARY CONSTRUCTION FENCE
- - - CONSTRUCTION LIMITS



STORM SEWER SCHEDULE

- | | |
|--|---|
| <p>1 STORM SEWERS (SPECIAL), 8" - 31 FT. SLOPE = 3.24 %</p> <p>2 STORM SEWERS (SPECIAL), 8" - 22 FT. SLOPE = 3.24 %</p> <p>3 STORM SEWERS (SPECIAL), 8" - 11.5 FT. SLOPE = 3.24 %</p> <p>4 STORM SEWERS (SPECIAL), 8" - 12 FT. SLOPE = 3.12 %</p> <p>5 STORM SEWERS (SPECIAL), 8" - 25 FT. SLOPE = 3.12 %</p> | <p>6 STORM SEWERS (SPECIAL), 8" - 30 FT. SLOPE = 3.12 %</p> <p>7 STORM SEWERS (SPECIAL), 8" - 52 FT. SLOPE = 0.50 %</p> <p>8 PIPE DRAINS 4" - 48 FT.</p> <p>9 PIPE DRAINS 4" - 58 FT.</p> <p>10 PIPE DRAINS 4" - 64 FT.</p> <p>11 PIPE DRAINS 4" - 68 FT.</p> |
|--|---|

REVISIONS

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 DESIGN FIRM # 184-000992

CONFLUENCE CONCOURSE
 SECTION 11-00026-03-MS
 VILLAGE OF HARTFORD
 PLAN

DWG. NO. LP\HARTFORD 448079\AMPHITHEATER PLAN.DWG
 REF. BK. PG.
 JOB NO. 448079
 DSN. BY: LDA
 DWN. BY: LDA
 CHK. BY: LDA
 DATE: OCTOBER, 2014
 SCALE: 1/8" = 1'-0"
 SHEET 3 OF 11

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	4
FEDERAL AID PROJECT		CONTRACT NO. 97576	

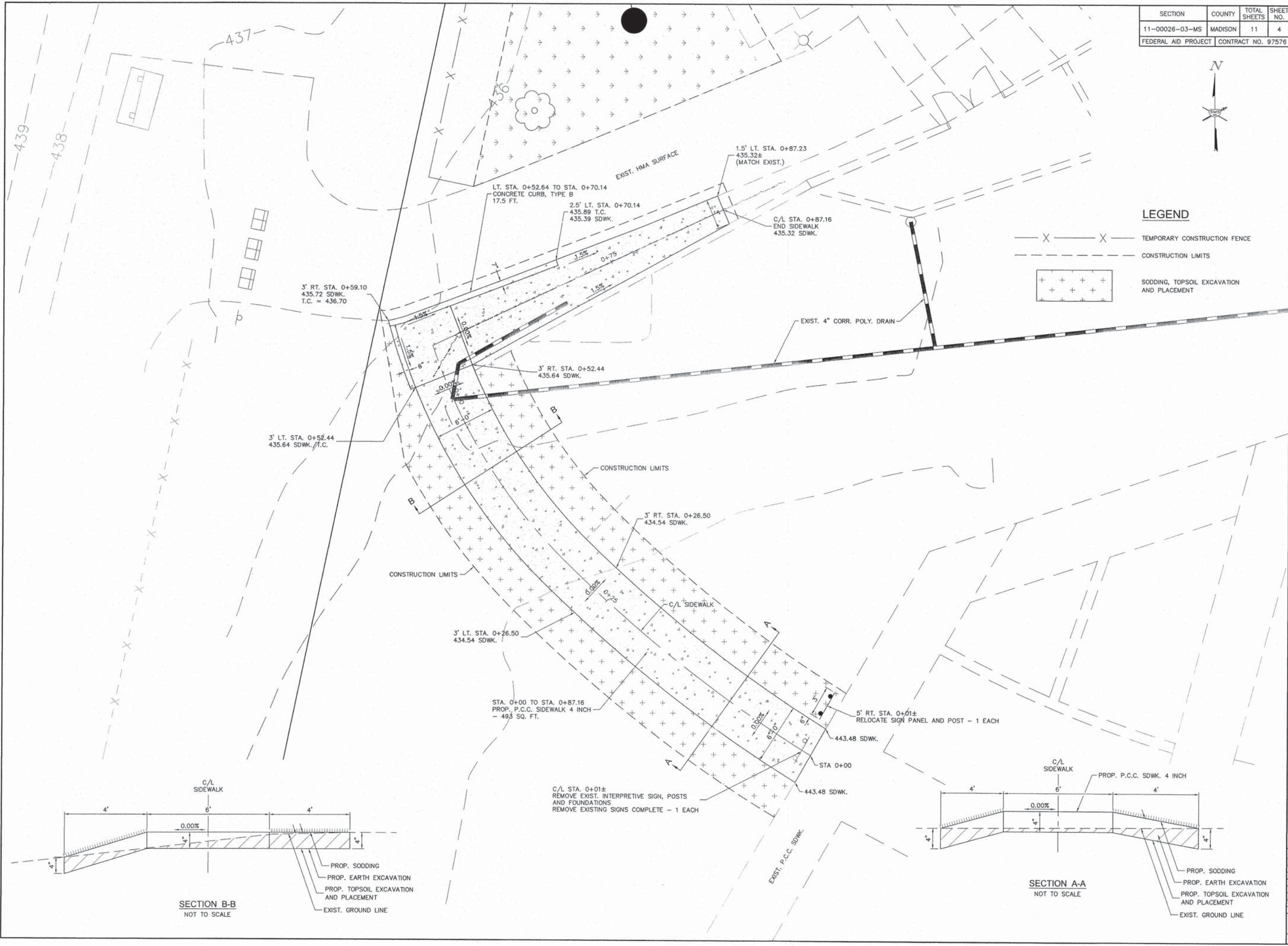


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 11 Central Industrial Drive, Suite 3, Graysville, IL 62940 618-977-4700 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

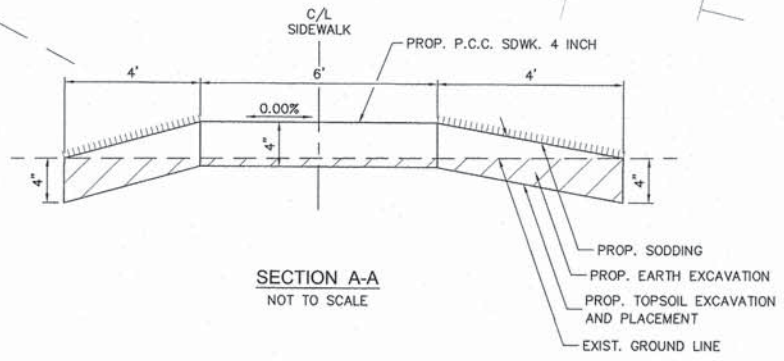
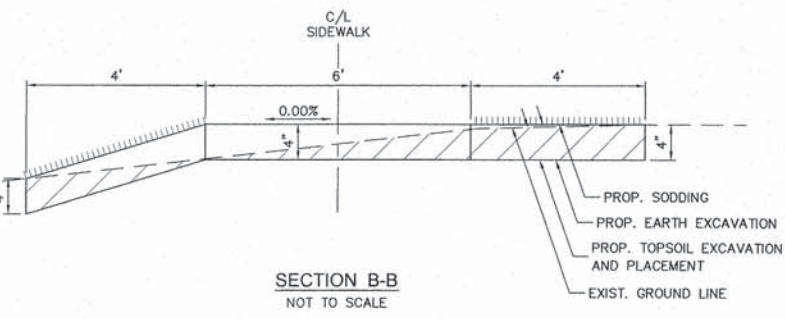
CONFLUENCE CONCOURSE
 SECTION 11-00026-03-MS
 VILLAGE OF HARTFORD
 PLAN

DWG. NO.	LPX/HARTFORD 448079\AMPHITHEATER SIDEWALK PLAN.DWG
REF. BK.	PG.
JOB NO.	448079
DSN. BY:	LDA
DWN. BY:	CAD
CHK. BY:	LDA
DATE:	OCTOBER, 2014
SCALE:	1/4" = 1'-0"
SHEET	4 OF 11



LEGEND

- TEMPORARY CONSTRUCTION FENCE
- CONSTRUCTION LIMITS
- SODDING, TOPSOIL EXCAVATION AND PLACEMENT



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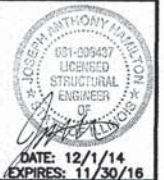
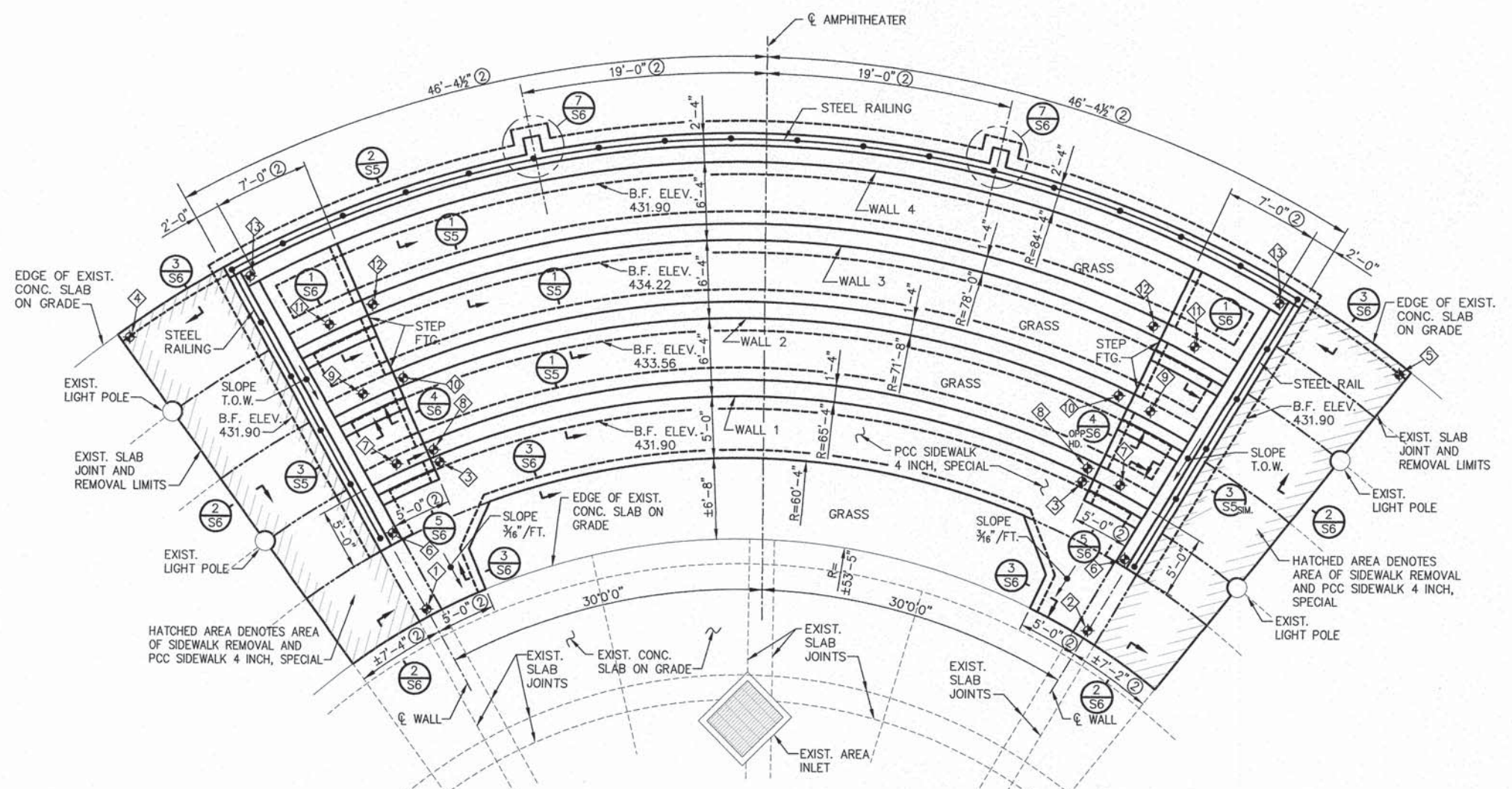


TABLE OF ELEVATIONS

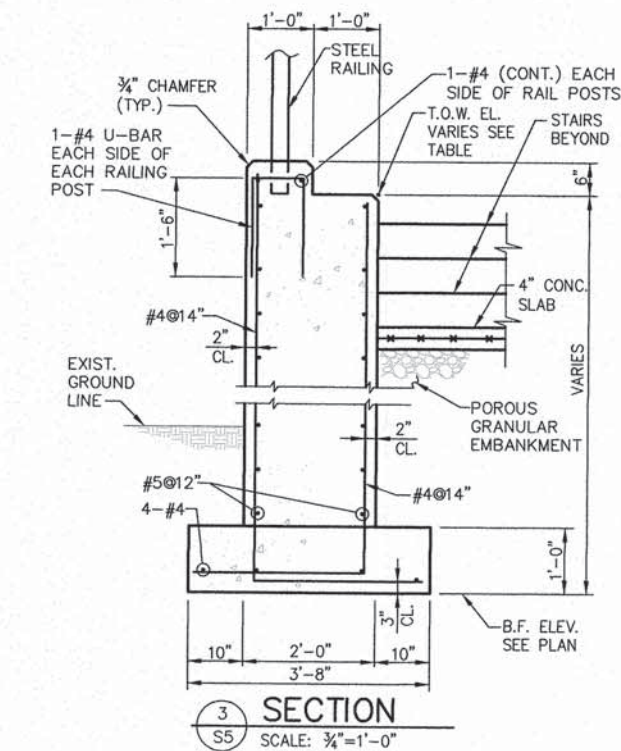
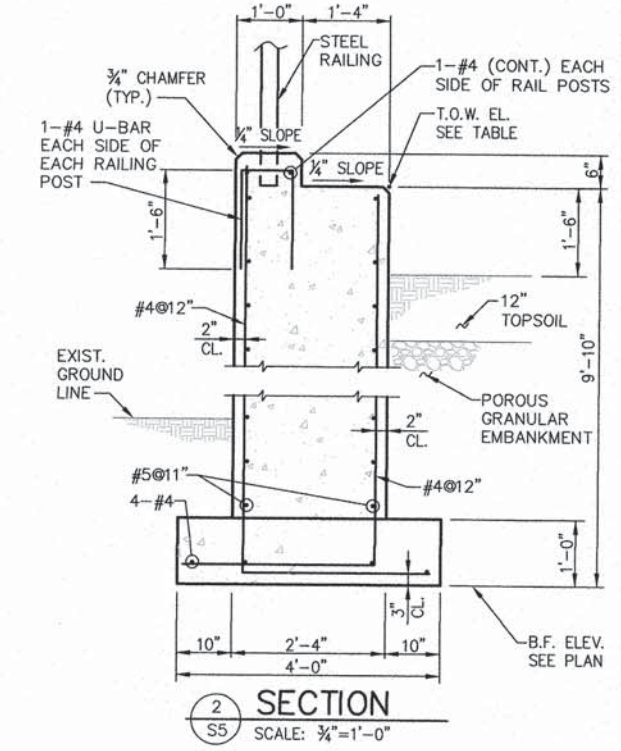
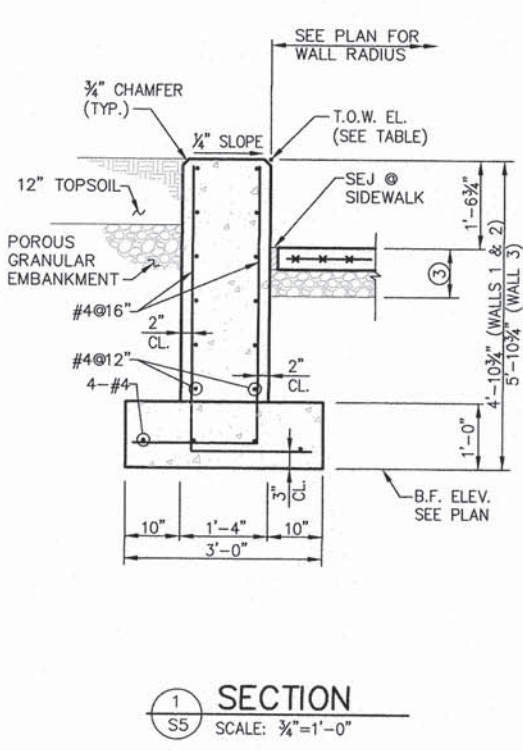
NO.	FTG. SIZE	TOP REINF.
1	TOP OF SLAB	±435.04
2	TOP OF SLAB	±435.05
3	TOP OF SLAB	435.23
4	TOP OF SLAB	±435.41
5	TOP OF SLAB	±435.48
6	TOP OF WALL	435.76
7	TOP OF WALL	435.62
8	TOP OF WALL	436.79
9	TOP OF WALL	437.28
10	TOP OF WALL	438.45
11	TOP OF WALL	438.95
12	TOP OF WALL	440.12
13	TOP OF WALL	440.73

BILL OF MATERIAL

ITEM	UNITS	QUANTITY
POROUS GRANULAR EMBANKMENT	CU. YD.	156
PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, SPECIAL	SQ. FT.	1193
SIDEWALK REMOVAL	SQ. FT.	546
STRUCTURE EXCAVATION	CU. YD.	243
CONCRETE STRUCTURES (SPECIAL)	CU. YD.	184.3
RUBBED FINISH	SQ. FT.	2400



FOUNDATION PLAN
SCALE: 3/8"=1'-0"



- FOUNDATION NOTES:**
- WORK SHALL BE IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012.
 - DIMENSIONS NOTED ARE MEASURED ALONG THE CURVE.
 - PCC SIDEWALK 4 INCH, SPECIAL SHALL BE CONSTRUCTED OVER POROUS GRANULAR EMBANKMENT IN FRONT OF WALL 1, 12" OF TOPSOIL SHALL BE PLACED OVER POROUS GRANULAR EMBANKMENT IN FRONT OF WALLS 2, 3 AND 4.
 - PCC SIDEWALK 4 INCH, SPECIAL REINF.: W.W.F. 4x4 W2.9xW2.9.
 - SEE SHEET 6 OF 11 FOR TYPICAL SLAB DETAILS AND TYPICAL STEP FOOTING DETAIL.
 - ALL EXPOSED CONCRETE STRUCTURES SHALL RECEIVE A RUBBED FINISH IN ACCORDANCE WITH ARTICLE 503.15 OF THE STANDARD SPECIFICATIONS.
 - REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60.
 - WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M55 OR M221.
 - ALLOWABLE SOIL BEARING PRESSURE = 1,500 PSF (ASSUMED). ALL EXCAVATIONS SHALL BE PROBES WITH A FIELD SHEAR VANE TEST IN ACCORDANCE WITH ASTM D2573 DURING CONSTRUCTION AND EVALUATED BY A QUALIFIED GEOTECHNICAL ENGINEER. IF SOILS ARE ENCOUNTERED WITH LESS THAN THE REQUIRED STRENGTH INDICATED ABOVE, THE ENGINEER SHALL BE NOTIFIED AND THE SUBGRADE SHALL BE EXCAVATED AND REPLACED WITH LEAN CONCRETE OR COMPACTED CRUSHED STONE. ADDITIONAL EXCAVATION AND BACKFILL, IF NECESSARY, WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

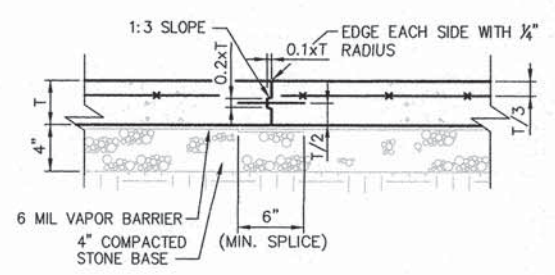
REVISIONS

SMS Sheppard, Morgan & Schwaab, Inc.
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DESIGN FIRM # 184-000892

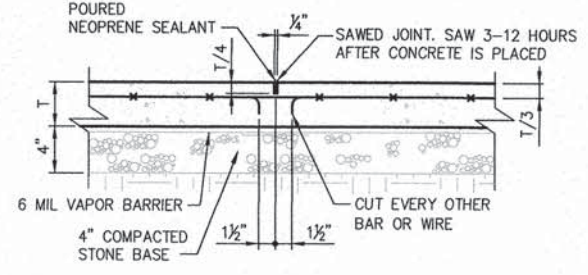
CONFLUENCE CONCOURSE
SECTION 11-00026-03-MS
VILLAGE OF HARTFORD
FOUNDATION PLAN

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	6
FEDERAL AID PROJECT	CONTRACT NO. 97576		

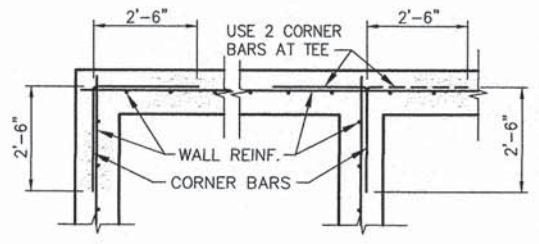
JOSEPH ANTHONY HAMILTON
 LICENSED PROFESSIONAL ENGINEER
 STATE OF MISSISSIPPI
 DATE: 12/1/14
 EXPIRES: 11/30/16



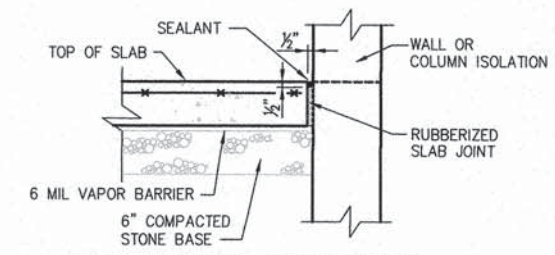
SLAB CONST. JOINT DETAIL (CSJ)



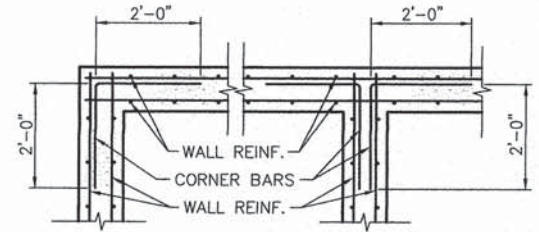
SLAB CONTROL JOINT DETAIL (CJ)



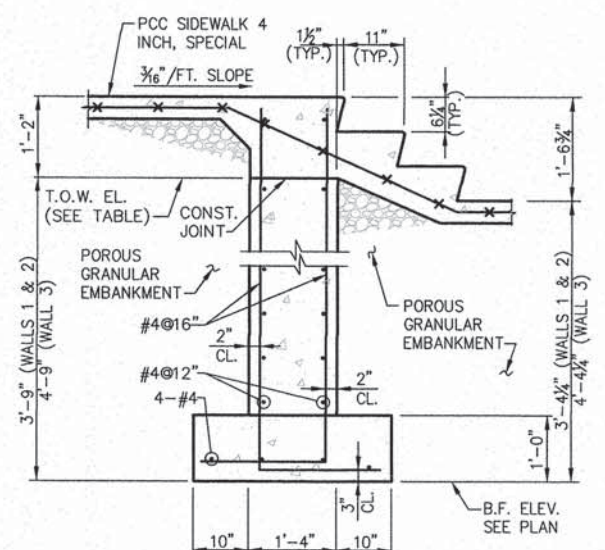
TYPICAL FDN. WALL CORNER BARS



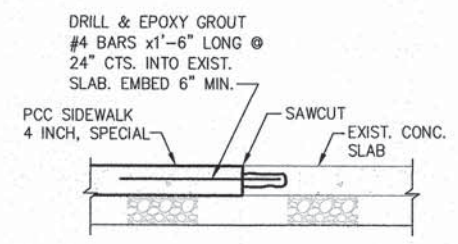
SEALED EDGE JOINT (SEJ)



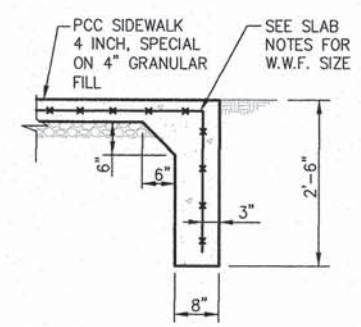
TYPICAL FDN. WALL CORNER BARS



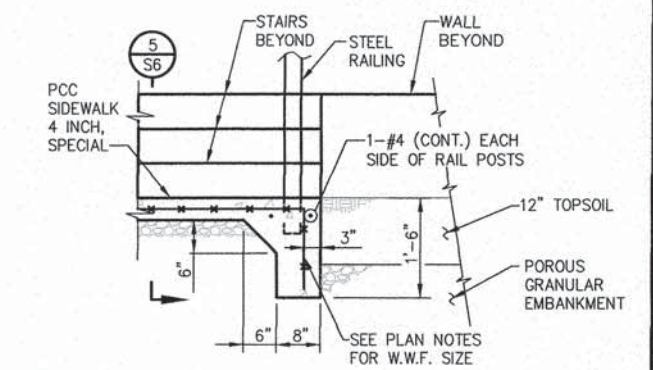
SECTION 1 S6 SCALE: 3/4"=1'-0"



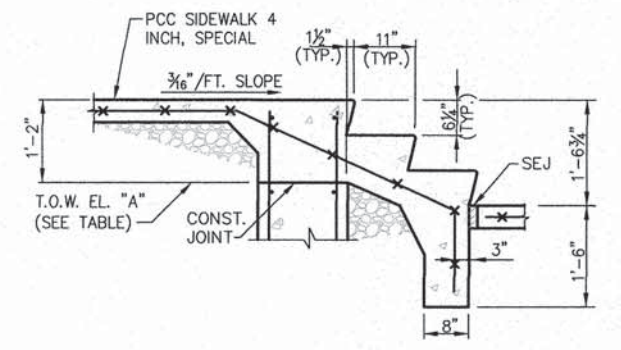
SECTION 2 S6 SCALE: 1"=1'-0"



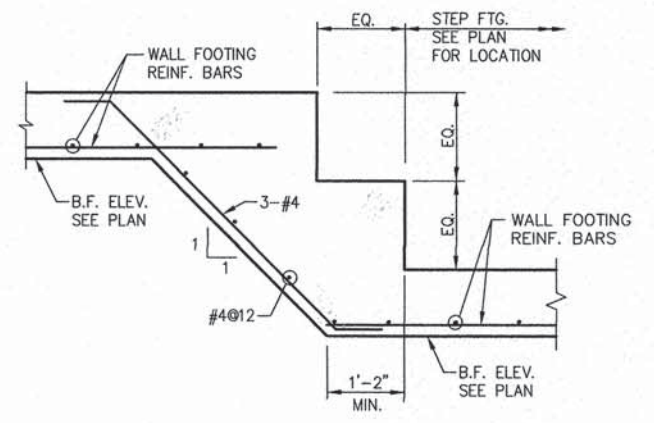
SECTION 3 S6 SCALE: 3/4"=1'-0"



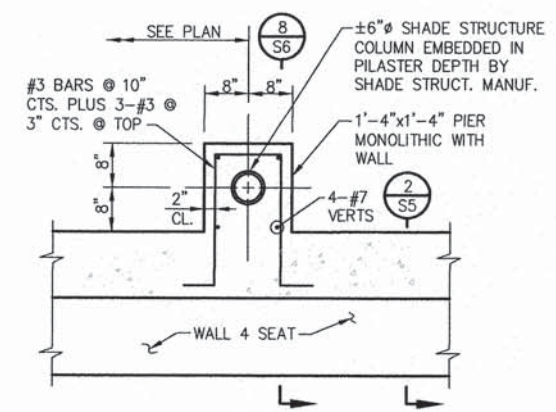
SECTION 4 S6 SCALE: 3/4"=1'-0"



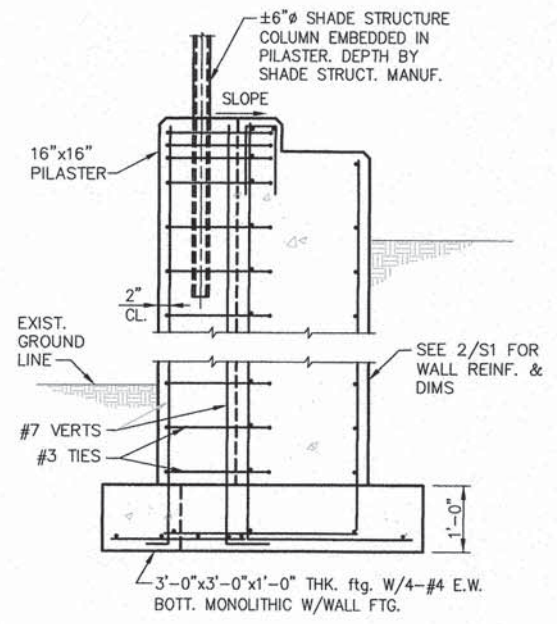
SECTION 5 S6 SCALE: 3/4"=1'-0"



SECTION 6 S6 TYPICAL STEP FTG. NO SCALE



SECTION 7 S6 SCALE: 3/4"=1'-0"



SECTION 8 S6 SCALE: 3/4"=1'-0"

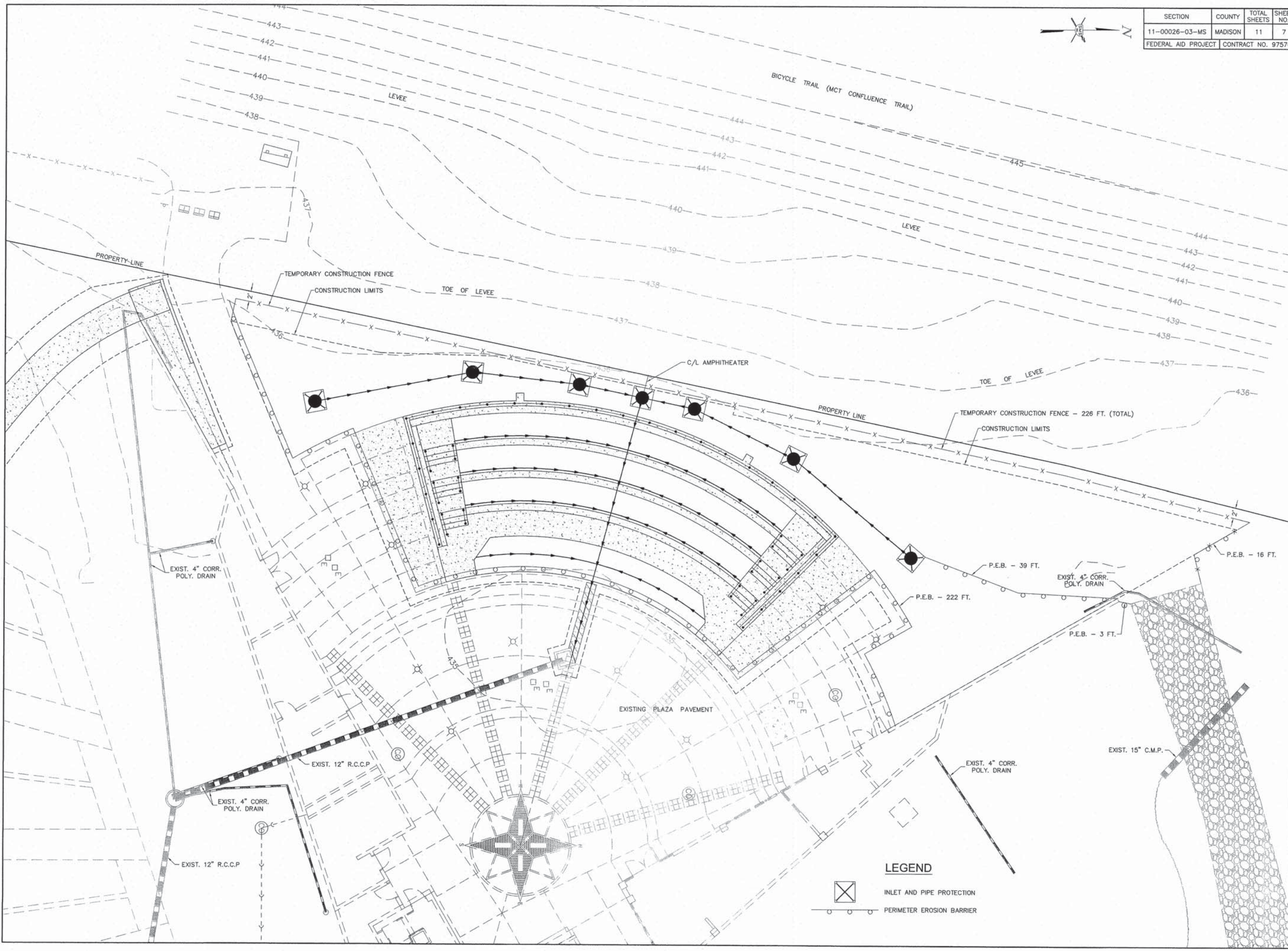
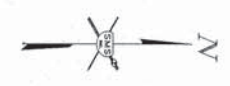
REVISIONS

SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box 5, Abbeville, LA 70522 663-887-8755 E-mail: smss@smsengr.com
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 DESIGN FIRM # 184-000992

CONFLUENCE CONCOURSE
 SECTION 11-00026-03-MS
 VILLAGE OF HARTFORD
 FOUNDATION SECTION VIEWS

DWG. NO.	LP-HARTFORD 448079
REF. BK.	PG.
JOB NO.	
DSN. BY:	JAH
DSN. BY:	JDG
CHK. BY:	JAH
DATE:	12/1/14
SCALE:	AS NOTED
SHEET	6 OF 11

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	7
FEDERAL AID PROJECT		CONTRACT NO. 97576	



REVISIONS

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 218 Market Street, P.O. Box E, Alton, IL 62002 618462-0705 Fax: 618462-0705
 10 Central Industrial Drive, Suite 3, Granite City, IL 62040 618877-8700 Email: mail@smseng.com
 DESIGN FIRM # 184-000992

ENGINEERS

CONFLUENCE CONCOURSE
 SECTION 11-00026-03-MS
 VILLAGE OF HARTFORD
 EROSION CONTROL PLAN

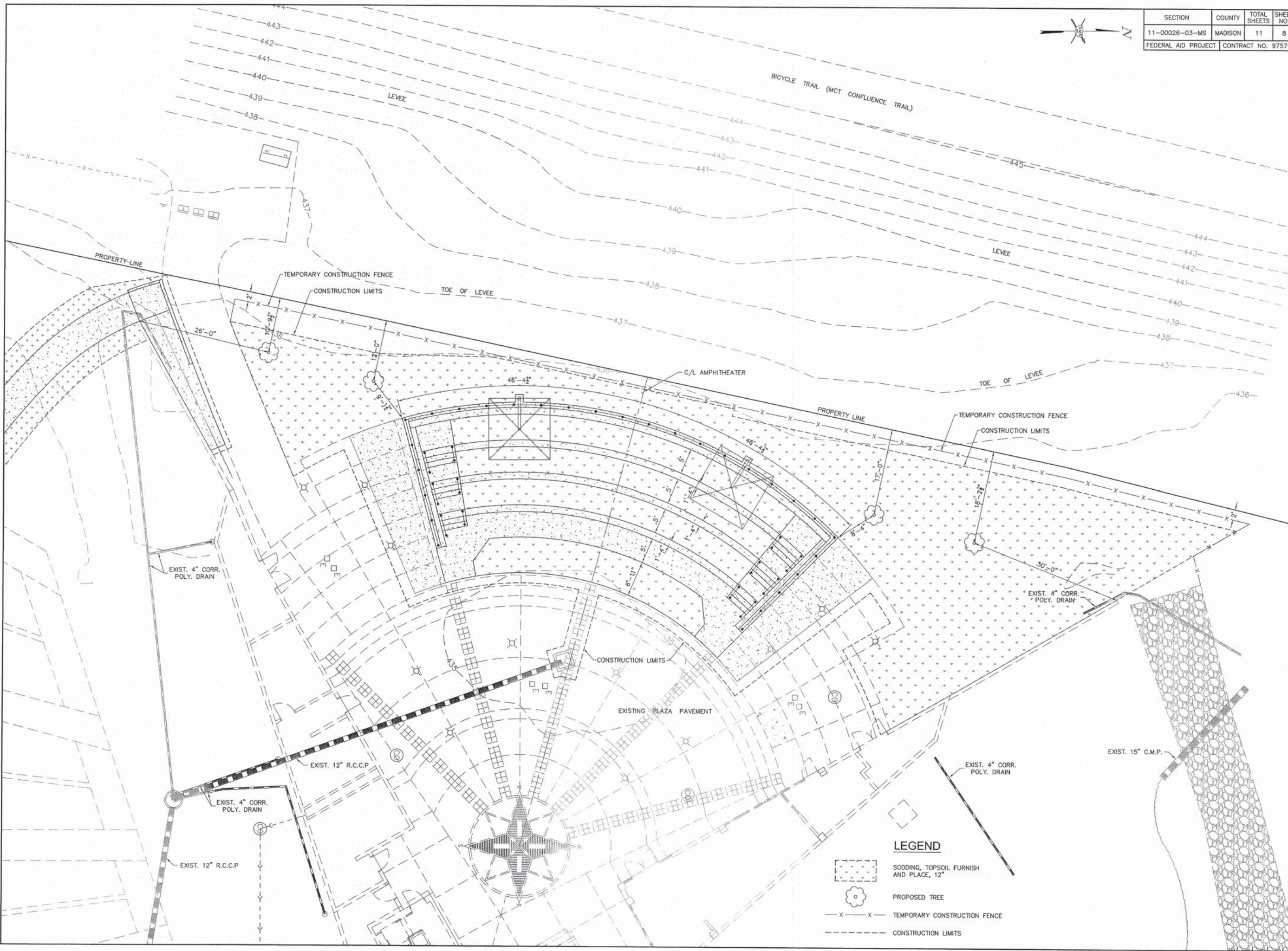
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 REF. BY: PG.
 JOB NO. 448079
 DSN. BY: LDA
 DWN. BY: CAD
 CHK. BY: LDA
 DATE: OCTOBER, 2014

SCALE: 1/8" = 1'-0"

SHEET 7 OF 11

S:\Land Projects\Hartford 448079 Confluence Tower\dwg\Amphitheater Erosion.dwg, 10/9/2014 9:08:23 AM, jman, 18

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	8
FEDERAL AID PROJECT		CONTRACT NO. 97576	



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 10 Central Industrial Drive, Suite 5, Granite City, IL 62040 618/877-8700 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CONFLUENCE CONCOURSE
 SECTION 11-00026-03-MS
 VILLAGE OF HARTFORD
 LANDSCAPING PLAN

LEGEND

	SODDING, TOPSOIL FURNISH AND PLACE, 12"
	PROPOSED TREE
	TEMPORARY CONSTRUCTION FENCE
	CONSTRUCTION LIMITS

DWG. NO.	LP\HARTFORD 448079\AMPHITHEATER LANDSCAPING.DWG
REF. BK.	PG.
JOB NO.	448079
DSN. BY:	LDA
DWN. BY:	CAD
CHK. BY:	LDA
DATE:	OCTOBER, 2014
SCALE:	1/8" = 1'-0"
SHEET	8 OF 11

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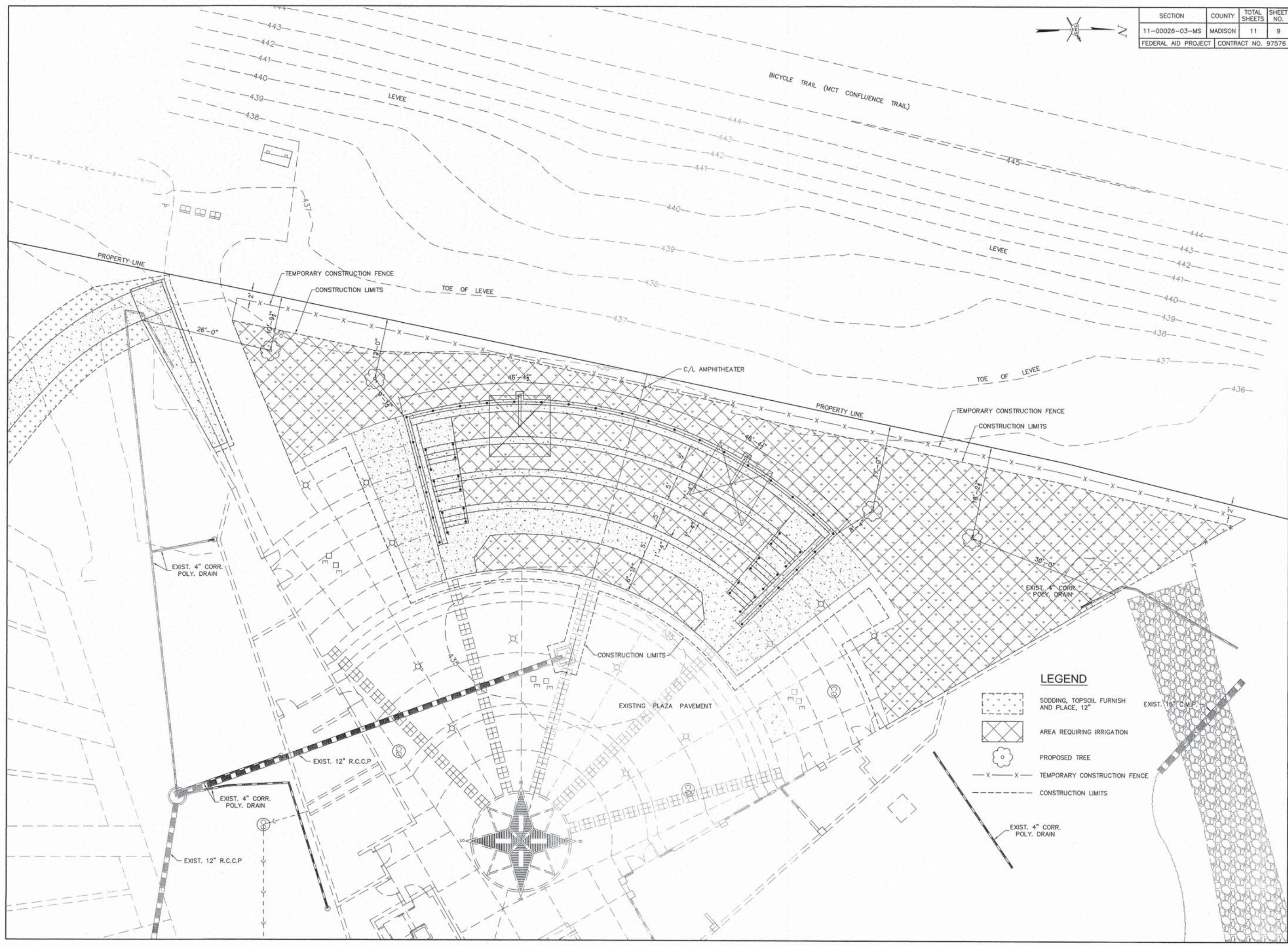
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	9
FEDERAL AID PROJECT		CONTRACT NO. 97576	



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 10 Central Industrial Drive, Suite 3, Geneva, NY, E 66040 518877-8100 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CONFLUENCE CONCOURSE
 SECTION 11-00026-03-MS
 VILLAGE OF HARTFORD
 IRRIGATION PLAN



LEGEND

	SODDING, TOPSOIL FURNISH AND PLACE, 12"
	AREA REQUIRING IRRIGATION
	PROPOSED TREE
	TEMPORARY CONSTRUCTION FENCE
	CONSTRUCTION LIMITS
	EXIST. 4" CORR. POLY. DRAIN
	EXIST. 12" R.C.C.P.
	EXIST. 15" C.M.P.

DWG. NO.	448079
TITLE	HARTFORD AMPHITHEATER IRRIGATION.DWG
REF. BK.	PG.
JOB NO.	448079
DSN. BY:	LDA
DWN. BY:	CAD
CHK. BY:	LDA
DATE:	OCTOBER, 2014
SCALE:	1/8" = 1'-0"
SHEET	9 OF 11

S:\Land Projects\Hartford 448079 Confluence Tower\dwg\Amphitheater Irrigation.dwg, 10/9/2014 9:11:24 AM, jman, 18

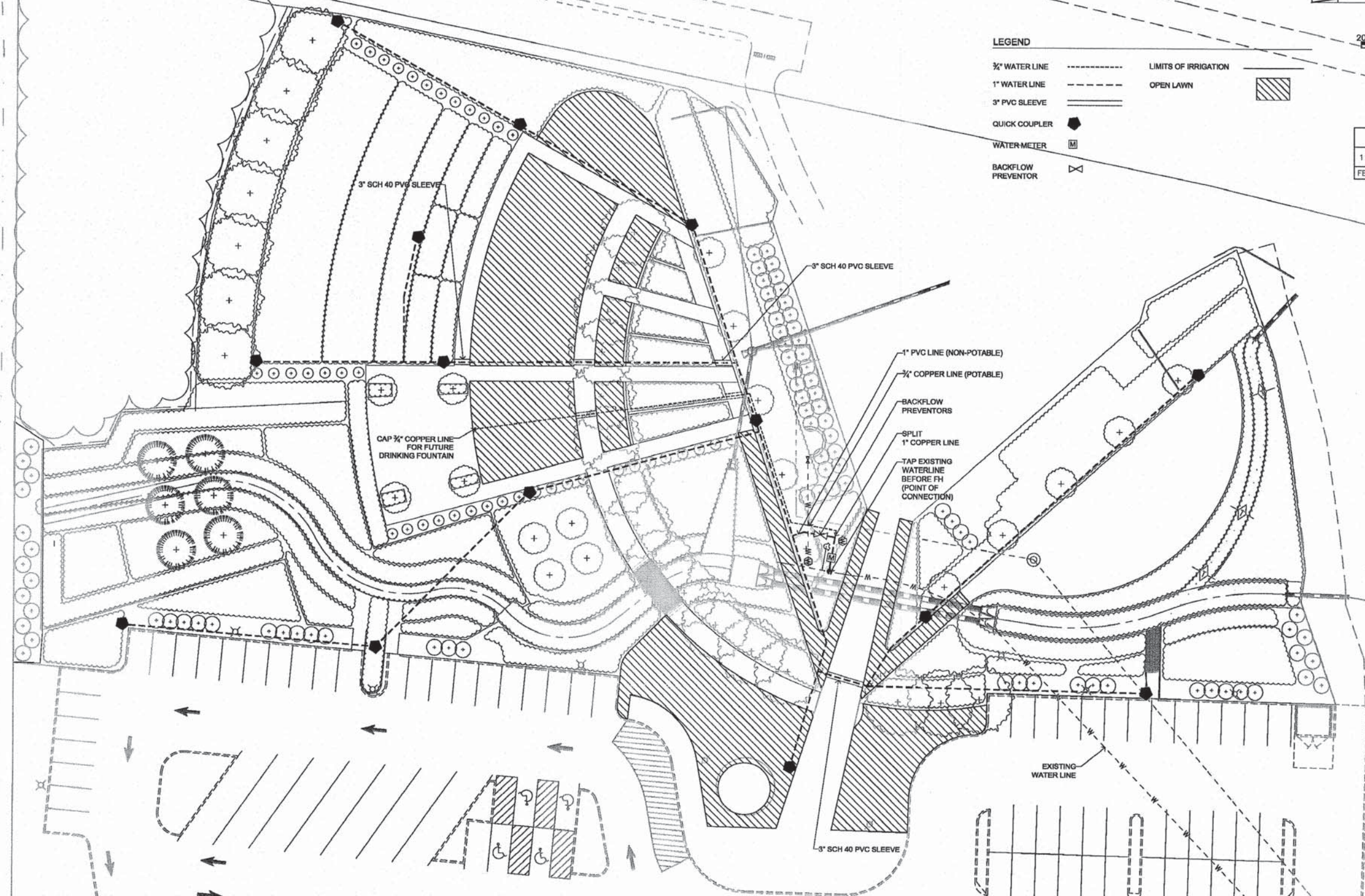
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00026-02-LS	MADISON	10	10



LEGEND

3/4" WATER LINE	---	LIMITS OF IRRIGATION	-----
1" WATER LINE	---	OPEN LAWN	▨
3" PVC SLEEVE	====		
QUICK COUPLER	◆		
WATER METER	⊞		
BACKFLOW PREVENTOR	⊗		

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	10
FEDERAL AID PROJECT		CONTRACT NO. 97576	



REVISIONS

PLANNING DESIGN STUDIO
 Planning Urban Design Landscape Architecture
 727 North First Street Suite 360
 Saint Louis, Missouri 63102
 P 314.241.3600 F 314.241.3601



VILLAGE OF HARTFORD, ILLINOIS
 LEWIS AND CLARK MEMORIAL TOWER
 TOWER LANDSCAPING
 SECTION 10-00026-02-LS
 IRRIGATION PLAN

DWG. NO.	PLANNING DESIGN STUDIO
REF. BK.	PG.
JOB NO.	448079.0
DSN. BY:	RW
DWN. BY:	RW
CHK. BY:	NTF
DATE:	SEPTEMBER, 2011
SCALE:	1" = 20'-0"
SHEET	10 OF 11

**EXISTING IRRIGATION PLAN
 FOR INFORMATION ONLY**

IRRIGATION NOTES

- IRRIGATION PLAN IS SCHEMATIC ONLY. THE CONTRACTOR IS TO UTILIZE THIS SCHEMATIC PLAN AS THE BASIS OF HIS DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIRED COMPONENTS.
- BOUNDARIES AND AREAS DEFINED IN THIS PLAN ARE SCHEMATIC ONLY. CONTRACTOR IS TO VERIFY IN THE FIELD ACTUAL LOCATIONS OF THE AREAS TO BE IRRIGATED FOR SHAPE, SIZE, AND IRRIGATION METHOD.
- THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN AND INSTALLATION FOR THE IRRIGATION SYSTEM. AT A MINIMUM, THE SYSTEM SHALL INCLUDE: A MAIN LINE AND LATERAL LINE PIPING, RAIN SENSOR, FLOW SENSOR, QUICK COUPLER VALVES, MASTER VALVE AND ISOLATION VALVES.
- CONTRACTOR SHALL INSTALL SYSTEM PER LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONTRACTOR SHALL PROVIDE PRESSURE LOSS CALCULATIONS FOR THE LARGEST AND MOST REMOTE ZONE.
- ALL MAINLINE AND LATERAL LINE PIPING AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SLEEVES. MAIN AND LATERAL LINE SLEEVES SHALL BE A MINIMUM OF TWICE THE DIAMETER OF THE PIPE WITHIN. CONTROL WIRE MAY BE INSTALLED IN THE SAME SLEEVES AS MAINLINE.
- ALL DAMAGED AND REJECTED PIPE WILL BE REMOVED FROM THE SITE AT THE TIME OF REJECTION.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR WILL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM OPERATION WITH MINIMAL OVERSPRAY ONTO WALKS, STREETS, WALLS, ETC.
- ALL PIPING, VALVES, ETC., WILL BE INSTALLED IN PLANTING AREAS / SHRUB BEDS WHEREVER POSSIBLE.

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY INSTALLATION OPERATIONS.
- THE IRRIGATION CONTRACTOR SHALL COORDINATE THE IRRIGATION WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
- THE IRRIGATION SYSTEM DESIGN SHALL BE BASED ON AN OPERATING PRESSURE OF 50-55 PSI FOR GEAR DRIVEN ROTORS, AND 30 PSI FOR ALL SPRAY HEADS. THE CONTRACTOR SHALL VERIFY WATER PRESSURE AT THE POINT OF CONNECTION AND CAPACITY PRIOR TO DESIGN AND CONSTRUCTION.
- ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED WILL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE PRESSURE COMPENSATING DEVICES (ON SPRAY HEAD) AS NECESSARY TO REDUCE OR ELIMINATE OVERSPRAY ONTO STREETS, WALKS, OR OTHER AREAS AS DIRECTED BY THE ENGINEER.
- ALL REMOTE CONTROL VALVES, GATE VALVES, QUICK COUPLERS AND CONTROL WIRE PULL POINTS SHALL BE INSTALLED IN APPROVED VALVE BOXES.
- QUICK COUPLER VALVES SHALL BE LOCATED AND INSTALLED AS INDICATED ON THE DRAWINGS.
- ALL CONTROL VALVES, EXCEPT MASTER VALVE, WILL BE INSTALLED WITH A PRESSURE REGULATING MODULE, (0-100 PSI RANGE).

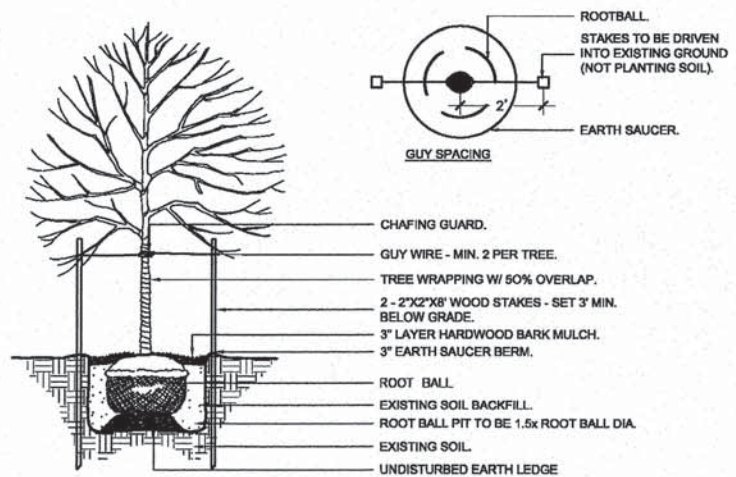
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11-00026-03-MS	MADISON	11	11
FEDERAL AID PROJECT		CONTRACT NO. 97576	

REVISIONS

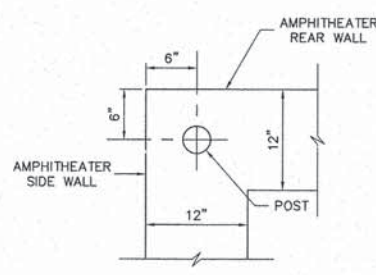
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box 5, Alton, IL 62002 618/462-8765 Email: mail@smsengineers.com
 10 Central Industrial Drive, Suite 3, Granite City, IL 62040 618/877-4700 Email: mail@smsengineers.com
 DESIGN FIRM # 184-000992

CONFLUENCE CONCOURSE
 SECTION 11-00026-03-MS
 VILLAGE OF HARTFORD
 CONSTRUCTION DETAILS

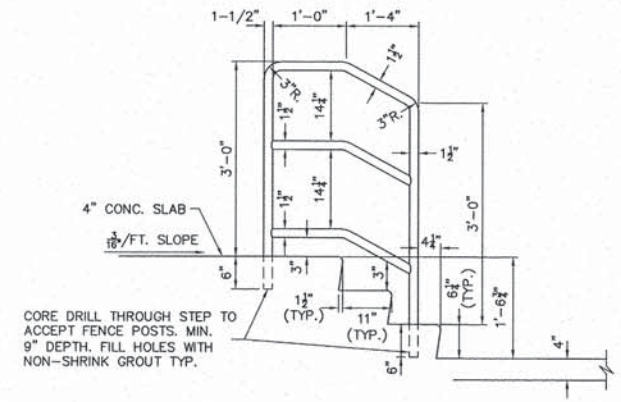
DWG. NO. LP\HARTFORD 448079\AMPHITHEATER DETAILS.DWG
 REF. BK. PG.
 JOB NO. 448079
 DSN. BY: LDA
 DWN. BY: CAD
 CHK. BY: LDA
 DATE: OCTOBER, 2014
 SCALE: NOT TO SCALE
 SHEET 11 OF 11



DETAIL: OVERSTORY TREE PLANTING
 NOT TO SCALE

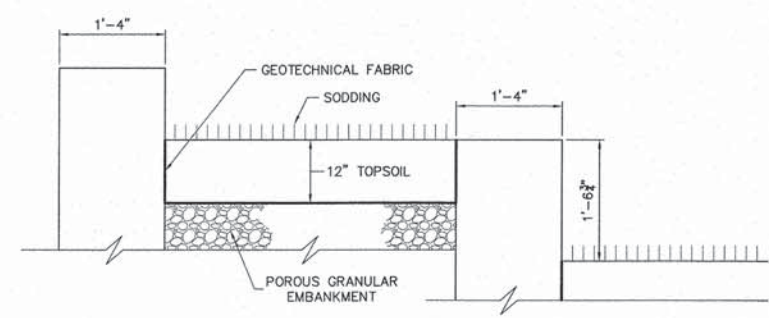


DETAIL: LOCATION OF PEDESTRIAN RAILING CORNER POST
 NOT TO SCALE

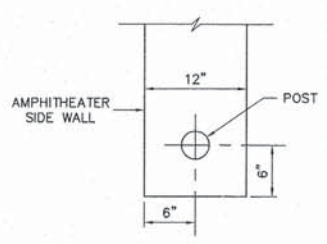


DETAIL: PIPE HANDRAIL (NEXT TO SEATING)
 NOT TO SCALE

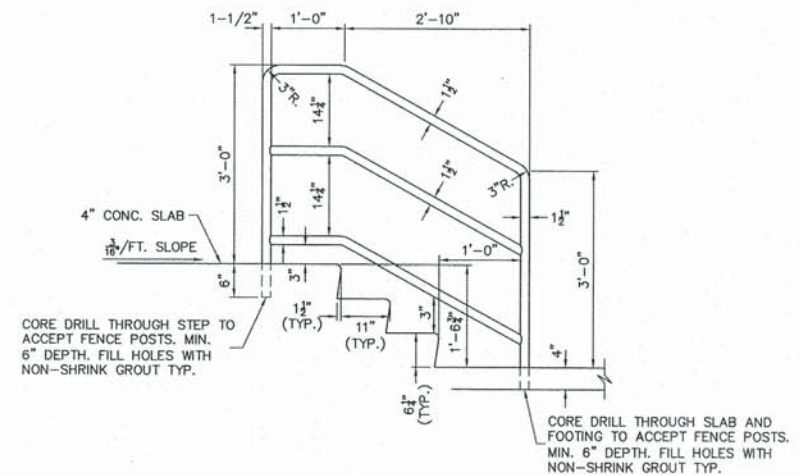
- NOTES:
- 1-1/2" O.D. SCH. 40 ALUMINUM PIPE SHALL BE USED FOR POSTS AND HANDRAILS.



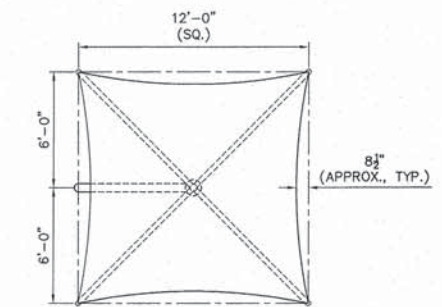
SECTION B-B
 NOT TO SCALE



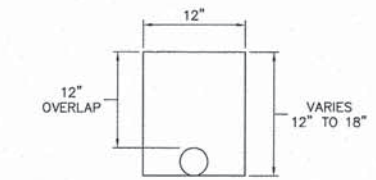
DETAIL: LOCATION OF PEDESTRIAN RAILING END POST
 NOT TO SCALE



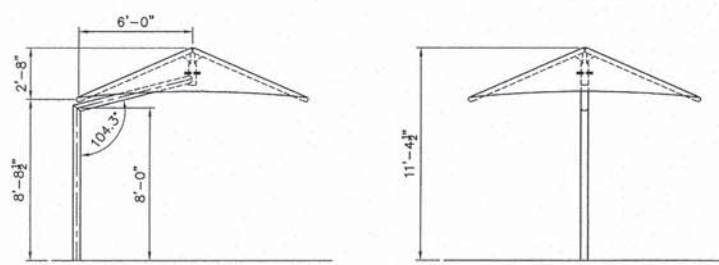
DETAIL: PIPE HANDRAIL (NEXT TO WALL)
 NOT TO SCALE



TENSILE SHADE STRUCTURE
 TOP VIEW
 NOT TO SCALE

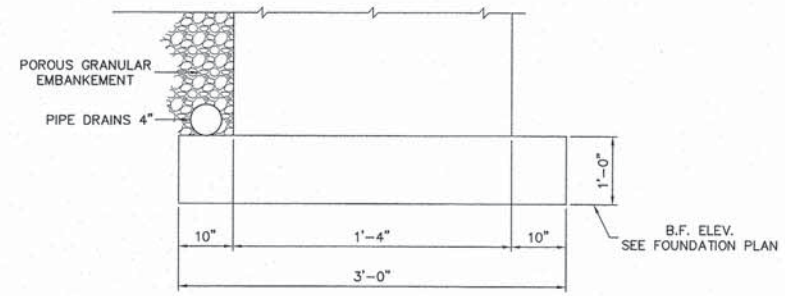


DETAIL: PAY LIMITS FOR GEOTECHNICAL FABRIC
 SECTION A-A, SHT. NO. 3
 NOT TO SCALE

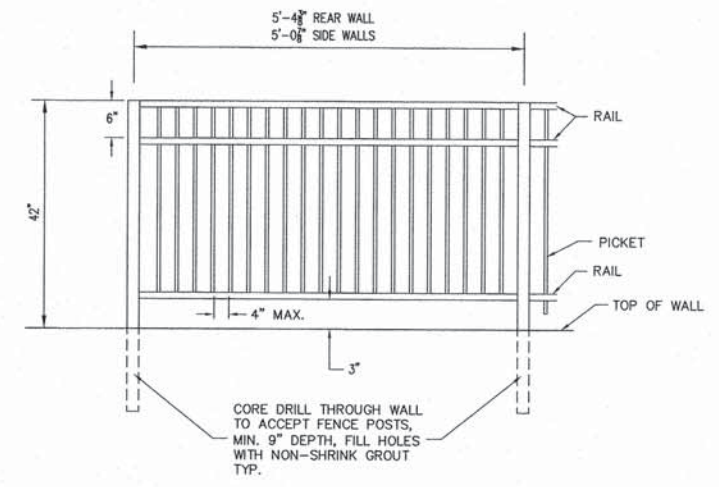


TENSILE SHADE STRUCTURE
 FRONT ELEVATION
 NOT TO SCALE

TENSILE SHADE STRUCTURE
 SIDE ELEVATION
 NOT TO SCALE



SEAT WALL FOOTING WITH PIPE DRAIN 4"
 NOT TO SCALE



DETAIL: PEDESTRIAN RAILING
 NOT TO SCALE

- NOTES:
- 2" O.D. SCH. 40 ALUMINUM PIPE SHALL BE USED FOR POSTS AND HANDRAILS.
 - PICKETS SHALL BE 3/4" O.D. SCH. 40 ALUM. PIPE.

nd Projects\Hartford 448079 Confluence Tower\dwg\Amphitheater Details.dwg, 10/9/2014 8:53:10 AM, jiman, 1:1